ARJUN SUBEDI

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FULL STACK DEVELOPER

Skilled Full Stack Developer with 2 years of professional experience in design, development, and maintenance of frontend and backend application components. Experience in building and implementing unit, integration, and system testing to improve functionality and enhance performance as well as 8 months intensive academic and project-based experience using Java, Angular, React, Node, Spring, Spring Boot, Git, and GitHub in high-performance, secure environment.

Software Development Life Cycle • Agile Methodologies • MERN Stack Development
Frontend / Backend Design • Database Development

Languages: Java, JavaScript
Web: HTML5, CSS3, Bootstrap, jQuery, XML
Web Services: RESTful
Web / App Servers: Apache / Tomcat, NGINX, IIS
Frameworks: ReactJS, NodeJS, Angular, Express, Spring (MVC, Boot, Security, Data, AOP, Dependency Injection), Hibernate
Databases: MySQL, MongoDB, MS SQL, PostgreSQL
Design Patterns: MVC, Singleton, Prototype, Session, Session Factory, Observer, Abstract Factory, Module Pattern, Simple Factory, Decorator, State, Command
SDLC: Agile, TDD, BDD, EDD, Pair Programming, Waterfall
Tools: IntelliJ, Eclipse, VS Code, Git, GitHub, Jira, Postman, MongoDB (Compass, Atlas), Gradle, MySQL Workbench, Docker, StarUML, Junit, Log4j
Platforms: Windows

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** *(Available for full-time, W-2 employment).*

LOGIC LYNC PVT. LTD., Kathmandu, Bagmati, Nepal • 2021-2022
Full-service website development company.

Associate Software Engineer (2021-2022)
Contributed to Full Stack development role for web application team.
- Collaborated with a team of 4 developers to deliver 2 web applications using Spring Boot, Java, and React, meeting all project deadlines and achieving a 95% client satisfaction rate.
- Optimization of RESTful APIs using Spring Boot, resulting in a 25% reduction in API response times and improving the overall performance of the applications.
- Improved the front-end performance by implementing lazy loading techniques in React components, reducing the initial page load time by 40% and enhancing user experience.
- Wrote automated tests for critical functionality using JUnit and Mockito
Technologies Used: Spring Boot, Git, GitHub, MySQL, MongoDB, Junit, Mockito.

LOGIC LYNC PVT. LTD. (continued)

Junior Software Engineer (2021)
- Executed end to end full stack development to successfully deliver 5 new features.
- Demonstrated a proactive approach to professional growth by continuously learning and mastering cutting-edge tools, technologies, and best practices, while cultivating a strong software engineering mindset to drive efficient and high-quality development processes.
- Implemented asynchronous processing using ActiveMQ, resulting in a 30% improvement in application responsiveness and ensuring smooth handling of high-volume requests.

Technologies Used: *OOP, Java, Spring Boot, React, Git, GitHub, Node.js, Express, JUnit, Mockito, MongoDB, MySQL*

SUVIDHA SEWA PVT. LTD., Kathmandu, Bagmati, Nepal • 2019-2021
Largest telecommunications network service provider in Nepal.

Drive Test Engineer
Collected and analyzed network performance data for various cellular technologies, working closely with cross-functional teams to identify and troubleshoot network issues, ensuring optimal network performance and customer satisfaction.
- Conducted drive tests for various cellular technologies including 2G, 3G, and 4G / LTE, by collecting and analyzing network performance data.
- Assisted in developing test plans and procedures for drive testing activities, working with cross-functional teams to develop and execute data validation and verification plans, and conducted extensive data analysis and reporting using SQL queries and scripting languages to provide insights into network performance and drive test data.
- Coordinated with other engineers to troubleshoot network issues, supported database administration tasks including database backup and recovery, performance tuning, and query optimization, ensuring data quality, integrity, and availability.
- Familiarized with software development practices utilizing C, C++ and Java, HTML, CSS, and JavaScript.

Technologies Used: *C, C++, Java, HTML, CSS, JavaScript, MySQL, PostgreSQL, Genex Probe, Genex Assistant*

ACADEMIC PROJECTS

Maharishi International University, Fairfield IA (2023)
- **Property Management System:** Developed web application for property owners and customers to exchange information about residential real estate. Created functionality for customers to search for properties, save favorites, submit applications, and buy / rent, and for owners to list properties and accept applications. Designed admin panel to manage customers and owners. implemented the Singleton and Repository Design Patterns to optimize performance. Developed frontend using React, Bootstrap, and Axios, built backend with Java, Spring (MVC, Boot, Security, Data, AOP, Dependency Injection), Hibernate, MySQL, JWT, and REST.
- **Badge & Membership Management System:** Designed complete backend system to maintain transaction records for different locations using badge system. Utilized PostgreSQL, Spring Boot, Spring MVC, JMS, GIT, and Postman. Ensured reliability, security, and ease-of-use while providing a high-quality user experience. Provided efficient and convenient way to manage transaction records.
- **Job Portal Management System:** Utilized modern tools including MongoDB, Angular.js, Node.js, Express Framework, Typescript, CSS, HTML, JWT, Postman, and Git. Leveraged tools to create easy-to-use platform for job seekers to browse and apply for job opportunities while allowing employers to list job openings and find suitable candidates. Agile framework was followed in development and Postman and Git were used for testing and version control. Streamlined job search process and connected job seekers with suitable employers.
- **Library Management System:** Collaborated with team to develop Swing-based library system to enable regular users to view and register for books while administrators can approve and maintain CRUD operations. Built system using Java for business logic and Swing for frontend design, following MVC architecture and Agile framework. Provided intuitive and user-friendly interface for both normal users and administrators while ensuring smooth and efficient operations.

Nepal Engineering College, Bhaktapur, Nepal (2019)
- **IoT-Based Smart System for Mushroom Farming:** Developed hardware system with mobile application to automate farming processes for farmers using C. Created system to regulate parameters for temperature, humidity, lighting conditions, and soil moisture. Utilized C, C++, Visual Code Studio, Firebase, Arduino IDE, Git, GitHub, and Windows 10.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion April 2025)
Maharishi International University, Fairfield, Iowa

Key Courses: Fundamental Programming Practices, Modern Programming Practices, Web Programming, Modern Web Application, Enterprise Architecture, Web Application Architecture

Bachelor of Science in Electronics and Communication Engineering (2019)
Nepal Engineering College, Bhaktapur, Bagmati, Nepal